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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,261	03/26/2004	Yuhua Huang	UCF-387	1653	
23717	7590 06/14/2005		EXAMINER		
LAW OFFIC	ES OF BRIAN S STE	VU, PHU			
COCOA, FL			ART UNIT	PAPER NUMBER	
			2871		

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					/			
		Applica	ation No.	Applicant(s)	No.			
Office Action Summary		10/811	,261	HUANG, YUHUA	•			
		Examir	ner	Art Unit				
		Phu Vu		2871				
Period fo	The MAILING DATE of this communor Reply	nication appears on	the cover sheet wit	h the correspondence addi	ress			
A SH THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (3) period for reply is specified above, the maximum so ure to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no nunication. 30) days, a reply within the statutory period will apply and will, by statute, cause the statute.	event, however, may a restatutory minimum of thirty d will expire SIX (6) MONT application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this com NDONED (35 U.S.C. § 133).	munication.			
Status								
1)	Responsive to communication(s) file	ed on .						
2a)□	This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-8 is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restri	nre withdrawn from						
Applicat	ion Papers							
9) 🗌	The specification is objected to by the	e Examiner.						
10)	The drawing(s) filed on is/are	: a) accepted or	b) objected to b	y the Examiner.				
	Applicant may not request that any object	ection to the drawing(s	s) be held in abeyand	ce. See 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	-	= -	•	, ,			
Priority	under 35 U.S.C. § 119		•					
а)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have be documents have be of the priority documental Bureau (PCT F	een received. een received in Ap ments have been i Rule 17.2(a)).	oplication No received in this National S	tage			
Attachmer		·						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (I	PTO-948)		ımmary (PTO-413) /Mail Date				
3) Infor	mation Disclosure Statement(s) (PTO-1449 of Provided in the Pr	•		formal Patent Application (PTO-	152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 4-6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tillin et. al US Patent No. 6204904.

Regarding claim 1, Tillin teaches a method of manufacturing an achromatic quarter wave film comprising laminating a TN-LC polymeric film (fig. 2 element 4) between two uniaxial polymeric films as a sandwich provide an optical component, providing a polarizer means (fig. 2 element 1) to receive incident unpolarized light of a wide spectral bandwidth and convert said incident unpolarized light into linearly polarized light and organizing said TN-LC polymeric film and said uniaxial polyermic film components of said optical component so that the linearly polarized light becomes circularly polarized after passing through the two uniaxial polymeric films and the TN-LC film (see CL in fig. 2 which stands for left hand circular polarization), and reflecting (fig. 2 element 2 is a mirror) the circularly polarized light so that it passes back through the TN-LC film and two uniaxial polymeric films one more time and finally becomes linearly polarized and orthogonal to the polarizer, and blocking out the linearly polarized light by the polarizer (fig. 1 element 9) leading to a dark state whereby the lamination of the two

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films and the TN-LC film function as a quarter wave film (input = 0 degrees output is 90 degrees thus a quarter wave film).

Regarding claim 5, the reference teaches an achromatic quarter-wave film comprising a laminated TN-LC polymeric film (fig. 2 element 4) sandwiched between two uniaxial polymeric films (fig. 2 elements 3 and 5) to provide an optical component, a polarizer (fig. 2 element 1) to receive incident unpolarized light of a wide spectral bandwidth and convert said incident polarized light into linearly polarized light; and a reflector (fig. 2 element 2) of the circularly polarized light emergent from the optical component.

Regarding claims 2 and 6, the limitation of the films having similar structures is met because the limitation does not set for any criteria for similar. All 3 layers can be considered solid thus are molecularly similar states.

Regarding claims 4 and 8, the limitation small variation of their parameters around their optimal values does not set forth any criteria for which parameters and to what extent small is considered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tillin in view of Hasebe et al US Patent No. 5863457.

Regarding claims 3 and 7, Tillin discloses all the limitations of claims 3 and 7 except the retarders having a phenyl group. Hasebe discloses a phenyl group to form a composition that exhibits enantiotropically nematic phase at room temperature.

Therefore, at the time of the invention it would have been obvious to one of ordinary skill in the art to use a retarder with a phenyl group to exhibit enantiotropically nematic phase at room temperature.

Conclusion -

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu Vu whose telephone number is (571)-272-1562.

The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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